

INTEGRATED REFLECTOR AND BOOM

ABSTRACT

An integral reflector-boom assembly (1) for a deployable antenna includes a facesheet (9) of stiff reflective material and a stiff lattice or grid structure bonded to the facesheet to form a reflector (3) portion of the assembly and a boom (5). Interlocked ribs (13, 15, 17 & 19) are arranged in a pattern that defines an isogrid structure in the reflector portion and at least a part of the boom assembly. Some of the ribs (13) extend in one piece from the reflector portion through the boom portion.